Green Buildings in Alexandria: Policy Recommendations Appendix #7

Comparison of Green Building Rating Systems

Rating System and Governing Body	Green Building Design Criteria	Building Types Covered	Certification Process
Leadership in Energy and Environmental Design (LEED) Green Building Rating System TM Developed by United States Green Building Council (USGBC) Number of LEED Certified Projects Worldwide: Commercial buildings: 1,004/ Homes: 267 Source: http://www.usgbc.org	Sustainable site development. Water savings Energy efficiency Materials Selection Indoor environmental quality Innovation in Design	Specific LEED rating systems have been developed for: - Homes (currently in pilot stage) - New Commercial Construction and Major Renovations - Existing Building - Commercial Interiors - Core and Shell development - Neighborhood Development - Schools - Retail - Health Care is currently under development	USGBC conducts third party verification prior to awarding a certification. Cost of certification: \$2,500 to \$22,500 depending on member status, building type and size. Significant documentation required for submittal. Accredited Professional is recommended but not required to be part of the design team
EarthCraft House™ is a residential green building program of the Greater Atlanta Home Builders Association in partnership with Southface. To date: 4,000 EarthCraft House single family homes and over 1,500 EarthCraft Multifamily dwelling units have been certified. Source: http://www.earthcrafthouse.com	Site Planning Energy Efficient Building Envelope and Systems Resource Efficient Design Resource Efficient Building Materials Waste Management Indoor Air Quality Water Conservation (Indoor and Outdoor) Homeowner Education Builder Operations Bonus/Innovation Points	New and renovated homes, including: - Single family homes - Multi-family homes - Duplexes - Townhouses - Low-rise apartment - Condominiums	Third party certification is conducted by Southface. Cost to builder for joining EarthCraft House program - \$825 The EarthCraft House fee for each house is \$0.10/sq.ft. (minimum \$250). The builder is required to: Attend a one-day EarthCraft House training. Attend a design review with EarthCraft House staff to generate an individualized EarthCraft House scoring worksheet. And then participate in a walk-through with EarthCraft House staff.

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Green Globes - an on-line auditing tool that lets designers, property owners and managers assess and rate	Project Management Site	New commercial building. Existing commercial buildings.	Third party certification is required to obtain certification but self-certification is an option.
buildings against best practices and standards.	Energy	The GBI works with NAHB to promote Green Home Building	\$4,000-\$6,000 per building for third party verification.
Run by the Green Building Initiative™ (GBI).	Water Resources	Guidelines which are designed to be a tool kit for the individual builder looking to engage in green building	On line questionnaire required to be completed by building owner.
Source: http://www.thegbi.org	Emissions, Effluent and other Impacts Indoor Environment	practices and home builder associations (HBAs) looking to launch their own local green building	
		programs.	
Buildings that earn the ENERGY STAR are the top performers for energy efficiency nationwide and use about 35 percent less energy than average buildings. Developed by EPA who provides strategies, tools, professional assistance, and recognition opportunities to help buildings and plants improve energy efficiency. More than 3,200 buildings in all 50 states representing almost 575 million square feet have earned the ENERGY STAR label. Source: http://www.energystar.gov/	Energy Efficiency	Homes and commercial and industrial buildings including offices, bank branches and financial centers, courthouses, hospitals, hotels and motels, K-12 schools, medical offices, supermarkets, dormitories and warehouses.	A Professional Engineer must verify the Statement of Energy Performance for verification to obtain ENERGY STAR rating above 75. No fee.
Standard 189P (Standard for the	Sustainable	New commercial buildings and major	No certification.
Design of High-Performance Green Buildings Except Low-Rise Residential Buildings) is a building standard that is being developed to provide minimum guidelines for	sites Water use efficiency	renovation projects. Excludes Low-Rise Residential Buildings.	It is not a rating system, and is meant to be used in conjunction with other ASHRAE (American Society of Heating, Refrigerating and Air-

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green building practices and will provide a baseline for sustainable design, construction, and operations in order to drive green building into mainstream building practices. Source: Proposed Standard 189, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings First Public Review (May 2007)	Energy efficiency Building's impact on the atmosphere Materials and resources Indoor environmental quality	Excludes existing buildings.	Conditioning Engineers) standards. Submittals required as outlined in code.
BREEAM (Building Research Establishment Environmental Assessment Method)	Management Health and Wellbeing	Courts Homes Industrial	There are several licensed assessment organizations mainly in the UK.
BRE is the certification and quality assurance body for BREEAM ratings in the UK.	Energy Transport	Multi-Residential	
Source: http://www.breeam.org	Water Material and Waste	Prisons Offices	
	Land Use and Ecology	Retail	
	Pollution	Schools Bespoke – system for buildings that fall outside the standard BREEAM categories International can assess a single development or BRE can also assist in creating a BREEAM version for a country or region outside of the UK.	

Rating System and Governing Body	Green Building Design Criteria	Building Types Covered	Certification Process
GREEN STAR Developed by Green Building Council Australia (GBCA) Source: http://www.gbcaus.org	Management Indoor Environment Quality Energy Transport Water Materials Land Use & Ecology Emissions Innovation	Commercial office design and construction. Rating systems have been recently developed for shopping centers, healthcare facilities education facilities, mixed use/multi-unit residential, industrial, and public buildings.	In Australia, GBCA validates the project's achievement through a formal assessment.